

HEEKY, J.; KARASEK, M.; KEJHA, J.; FIRST, B.

Iodized amino acid and peptide derivatives. Chem Cz Chem 29
no.11:2814-2821 N '64.

1. Forschungsinstitut fur Pharmazie und Biochemie, Prague.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413230001-7"

FIRST, J.

Meadows of Pribylina. p. 352

KRASY SLOVENSKA (Poverenictvo dopravy. Riaditelstvo pre cestovny ruch)

Vol. 36, no. 9, Sept. 1959

Monthly list of East European Accessions (EEAI) LC. Col. 9, no. 1 January 1960 Uncl.

# FIRSTANOVA, A.D., vrach

Paramecia reaction in the diagnosis of malignant tumors of the female genital zone. Sbor. nauch. rab. Kaf. akush. i gin. GMI no.1:213-216 '60. (MIRA 15:4)

1. Otdeleniye oblastnoy bol'nitsy im. Semashko, rukovoditel' S.S. Dobrotin, doktor med.nauk.

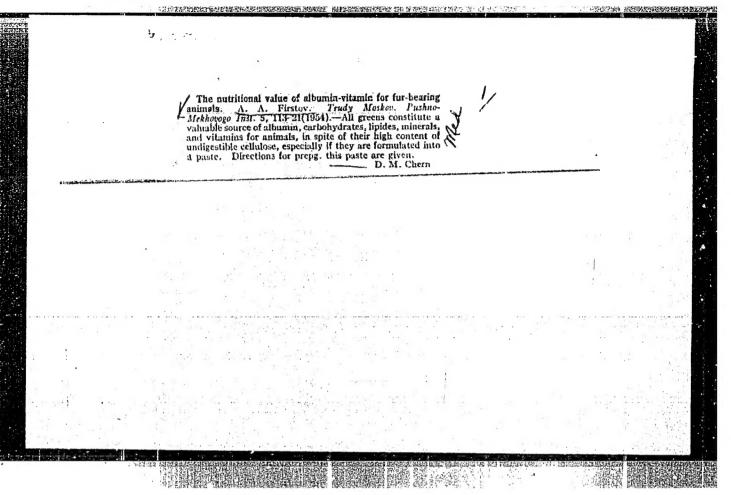
(GENERATIVE ORGANS, FEMALE—CANCER) (PARAMECIUM)

POZKNJAKOV, YA. V., FIRSTOV, A.A.

Arctic Fox

Effect of feeding schedule on digestion on the arctic fox. Kar. i zver. 5 No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.



FIRTICAL

USSR / Farm Animals. Wild Animals.

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 45267

Post for the office and a

Author

: Firstov, A. A.; Kharitonov, P. Λ.

Inst

: Not given

Title

: The Feeding of the Silver-Black Foxes During Pregnancy.

Orig Pub : Karakulevodstvo i zverovodstvo, 1957, No. 2, 27-29

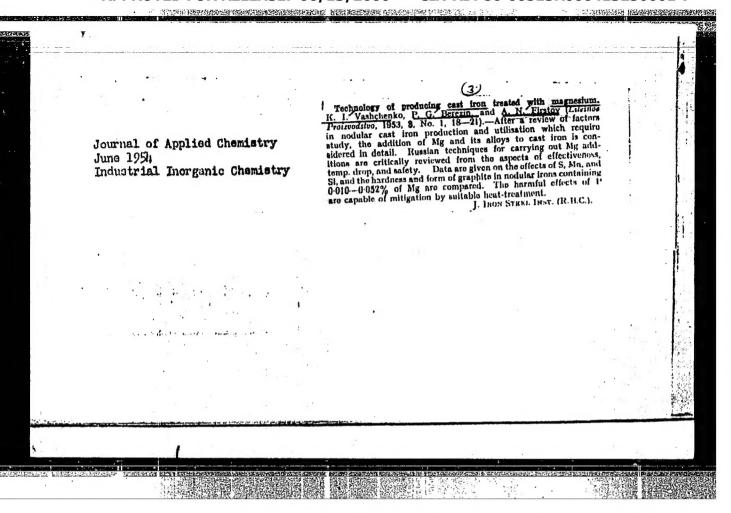
Abstract : In feeding uniform rations of 625 large calories to silverblack foxes during the entire period of their pregnancy, 4.3 whelps were obtained: when feeding reduced rations (550 large calories) during the first half of the pregnancy and increased rations (700 large calories) during the second half of the pregnancy, the litters averaged 3.3 whelps per fox. It has been noticed that already in the beginning of t the pregnancy the organism of the fox is capable of producing reserves of nitrogenous substances which are necessary for

Card 1/2

36

## "APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413230001-7



MHEKO, Sergey Mesterovich; FIRSTOV, Aleksey Mikoleyevich; KONASHKO,
H.P., otv.red.; TEPLTAKOVA, A.S., red.

[Progressive foundry practices] Progressivnaia tekhnologiia
liteinogo proisvodstva. Kiev, 1960. 39 p. (Obahchestvo po
rasprostreneniiu politicheskikh i nauchnykh snanii Ukrainskoi
SSE. Ser.7, no.12).

(Founding)

## PHASE I BOOK EXPLOITATION

SOV/4475

Firstov, Aleksey Nikolayevich, Fedor Ivanovich Smirnov, and Mikhail Mikhaylovich Budylin

Mekhanizatsiya lit'ya v obolochkovyye formy ( Mechanization of Shell-Mold Casting) Moscow, Mashgiz, 1960. 174 p. 6,000 copies printed.

Reviewer: R. I. Anpilogov, Engineer; Ed.: I. B. Pyasik, Engineer; Chief Ed. (Southern Division, Mashgiz): V. K. Serdyuk, Engineer; Ed.: P. Ya. Furer.

PURPOSE: This book is intended for technical personnel in foundries.

COVERAGE: The book deals with the large-scale mechanization of the shell-mold casting process in large-lot and mass production. The authors present recommendations for selecting proper materials for the molds and charge, describe what they consider to be the most efficient technique of casting and discuss equipment required for the operation. Technical and economic indices of shell-mold casting are presented, and measures for safeguarding the health of foundry

Card 1/6

TO THE POST OF THE PROPERTY OF THE POST OF

## BOV /4475 Mechanization of Shell-Mold (Cont.) workers are suggested. The book is based on the experiences of the Kiyevskiy mototsikletnyy zavod (Kiyev Motorcycle Plant) and other foundries. There are 20 references, all Soviet. TABLE OF CONTENTS: Foreword 3 1. Materials for Shells and Equipment for Preparing Shells Used in 5 6 Shell-Mold Casting Materials for shells Composition of mixtures for shell-molds and shell-type cores 11 14 Check of physicomechanical properties of mixtures for shells Drying equipment 21 Machines for preparation of precoated resin-sand mixture 27 47 2. Equipment for Making Molds and Cores 47 Materials for patterns 48 Construction of pattern plates Design of the gating and risering provisions 50 Card 2/6

DHITRIYEV, Anatoliy Vasil'yevich; FIRSTOY, A.N., kand.tekhn.nauk, retsenzent;
ONISHCHENKO, N.P., inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn.red.

[Guide for workers in foundry chipping and cleaning departments]
Pamiatka dlia rabochikh obrubnykh i ochistnykh otdelenii liteinykh
tsekhov. Moskva, Gos.nauchnetekhn.izd-vo mashinostroit.lit-ry.
1960. 50 p.
(Foundries--Sefety measures)

VASHCHENKO, K.I.; AVRINSKIY, P.V.; FIRSTOV, A.N.; MESELOVSKIY, V.L.;
Prinimali uchastiye: VARENIK, P. A.; YAKOVENKO, G.F.; SHEVCHUK, R.S.;
NOSOWA, Ye. M.; KUGEL', A.V.; SHTYKA, G.N.; MONDZELEVSKIY, S.P.

Vats for the fusion of caustic soda. Lit. profev. m.6:4-6 Je '61.

(Iron founding)

(Chemical engineering—Equipment and supplies)

VASHCHENKO, K.I.; FIRSTOV, A.N.; ZHIZHCHENKO, V.V.; KADUOHENKO, A.G.;

GOLOVAN', N.A.

Bimetallic motor cylinders for motorcycles. Lit. proixv.
no.8:16-18 Ag '61. (MIRA 14:7)

(Motorcycles) (Leminated metals)

VASHCHENKO, Konstantin Il'ich, doktor tekhn, nauk, prof.; ZHIZHCHENKO, Valentin Vasil'yevich, inzh.; FIRSTOV, Aleksey Nikolayevich, kand. tekhn. nauk, dots.; SLITSKAYA, I.M., inzh., red.; VASIL'YEV, Yu.A., red. izd-va; BELOGUROVA, I.A., tekhn. red.

TO THE PROPERTY OF THE PROPERT

[Bimetal aluminum-iron castings]Bimetallicheskie otlivki aliuminii-zhelezo s diffuzionnoi sviaz'iu. Leningrad, 1962. 25 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Liteinoe proizvodstvo, no.1) (MIRA 15:9) (Laminated metals) (Founding)

VASHCHENKO, K.I., doktor tekhn.nauk; FIRSTOV, A.N., kand.tekhn.nauk; ZHIZHCHENKO, V.V., kand.tekhn.nauk; DUPLYAK, V.D., inzh.; AVDOKUSHIN, V.P., inzh.; KOSTENKO, G.D., inzh.; GOLOVAN', N.A., inzh.

Die-casting of bimetallic motorcycle cylinders. Mashinostroenie no.4:65-68 Jl-Ag 65. (MIRA 18:8)

34186-65 EVP(k)/EVT(m)/T/EVT(t)/ETI LIP(c) UR/0418/66/000/001 ACC NR: AP6026024 SOURCE CODE: UR/0418/66/000/001	70043/0046
AUTHOR: Vashchenko, K. I. (Doctor of technical sciences); Zhizhchenko, V. (Candidate of technical sciences); Firstov, A. N. (Candidate of technical sciences); Kostenko, G. D. (Engineer)	V. sciences);  +7 +7
CEG: none	Ĉ.
TITIE: Intensity of iron saturation in calorizing alloys and methods for a	refining
SOURCE: Tekhnologiya i organizatsiya proizvodstva, no. 1, 1966, 43-46	
TOPIC TAGS: aluminum containing alloy, metallurgic process, metal purification binary alloy, temperature test, metal melting, intermetallic compound, ironalloy, metallurgy	ation, n containing
ABSTRACT: The authors point out that the extent to which aluminum alloys saturated by iron during calorizing has not been studied up to the present and little effort has been made to develop methods for purifying these all The problem of refining is important not only from the standpoint of productionary alloy castings but also for purification of cast aluminum alloys in	oys.
which iron is a harmful impurity.	
Iron saturation was studied for pure aluminum and for aluminum alloys with 7.15 and 28% sinc, as well as in a sinc alloy with 0.2% aluminum since the	,
Card 1/4 UDC: 621.74.043:6	2:222

## L 34186-66

## ACC NR: AP6026024

alloys are recommended for use in calorizing. Zinc alloy specimens with 0.25 aluminum were calorized at 535-545°C, aluminum alloys at 680-690 and 720-730°C and pure remainum at 680-690, 720-730 and 780-790°C. Each specimen was held in the calorizing alloy for five minutes. After every five specimens had been calorized, metal samples weighing 8-10 g were removed from the vat for determining iron concentration. It was found that the specific rate of dissolution and the intensity of iron saturation are increased by raising the calorizing temperature. This is due to an increase in the activity of the melts with respect to iron (the degree of heating and the saturation limit of the iron melt. increase.)

CHERT PERSONNEL SERVEN SER

The specific rate for dissolving of cast iron in an aluminum alloy with 7% Zn shows the same relationship to iron concentration as for pure aluminum. An increase in temperature from 680-690 to 720-730°C has no effect on specific rate of dissolving. Specific rate of dissolving is increased by raising the zinc content in the melt and at a concentration of 28% the rate is the same as for pure aluminum. However, the relationship between specific rate of dissolving and iron concentration in the calorizing alloy is stronger and differs somewhat from that for pure aluminum.

A sharp reduction in the specific rate of dissolving is observed at iron concentrations below i.0-1.4% as a function of the calorizing temperature. Beyond this point, there is some increase in the dissolving rate after which it remains practically constant. This type of behavior in the specific rate of dissolving as a function of iron concentration is due to the extreme iron deficiency

Card 2/4

ACC NR: AP6026024

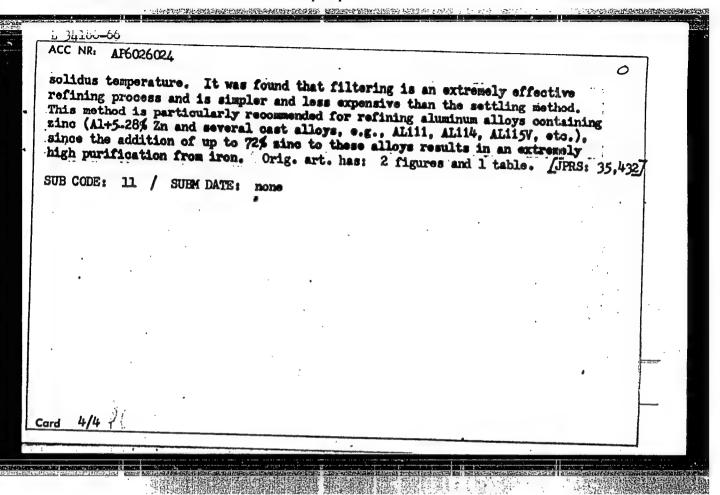
(0.012-0.018%) in the sutsetic of the Zn-Fe system and the formation of intermetallic compounds at rather low iron concentrations.

The forms ion of Fe-Zn and Fe-Al intermetallic compounds (and possibly more complex systems) stabilizes the rate of dissolving. A zinc alloy with 0.2% aluminum yields satisfactory results in calorizing cast iron and steel. Iron saturation of this alloy is much lower than for aluminum or aluminum-zinc alloys. The specific rate of dissolution for iron in this alloy is also very low and increases somewhat with an increase in iron concentration in the alloy. Iow iron saturation intensity in a Zn+0.2%Al alloy is due to the low calorizing temperature. Thus, the bath is quite highly saturated with iron during calorizing of steel in aluminum and aluminum alloys.

CONTRACTOR OF THE PROPERTY OF

Two refining methods were tested: settling and filtering. Both methods are based on a reduction in the solubility of iron in aluminum and its alloys when the temperature is reduced. During settling, excess iron which is separated out in the form of aluminides or sincates is precipitated to the bottom of the vat due to its higher specific gravity. In the case of filtering, these iron compounds are retained by the filter for the same reason. Pure aluminum and aluminum—zinc alloy with 26% sinc with various initial iron concentrations were refined. The settling and filtering processes were carried out at a temperature  $10^{-1}5^{\circ}$ C above the solidus temperature. The settling time was four hours. Fusion of the refined alloys with sinc (up to 72% Zn) was used for reducing the

Card 3/4



PRE AUGUSTICATION DALINGOS SE LOS COMPUNIOS DE LOS CASACIONES

ACC NR: AP6030381 SOURCE CODE: UR/0148/66/000/004/0137/0141 AUTHOR: Vashchenko, K. I.; Firstov, A. N.; Belotskiy, A. V.; Duplyak, V. D.; Kostenko, G. D. ORG: Kiev Polytechnical Institute (Kiyevskiy politekhnicheskiy institut) TITLE: Structure and phase composition of the diffusion layer in bimetallic iron-aluminum castings SOURCE: IVUZ. Chernaya metallurgiya, no. 4, 1966, 137-141 TOPIC TAGS: phase composition, binary alloy, iron aluminum alloy The report studies the structure and phase composition of the ARSTRACT: The report studies the structure and phase composition of the diffusion layer of specimens of Armco/iron (0.014 % C), steel grades 20/4! and U8 and cast iron grade SCh 21-40/ aluminized at different temperatures and aged in a melt of pure aluminum or in an aluminum alloy with 4 % Si and 7 % 2n. Cylindrical specimens 10 mm in diameter and 30 mm long were aluminized in small tanks of thin sheet iron, 25 mm in diameter and 45 mm high which were immersed in a crucible containing the aluminum melt. Specimens 18 mm in diameter and 70 mm long were aluminized directly in the crucible and then had the aluminum melt poured over them in a sand mold at a temperature of 720-730°C. From the bimetallic billets thus obtained sections and specimens for tensile testing were prepared. Binary alloys were prepared in an electric arc crucibleless furnace with a protective (argon) atmosphere. Chargo materials were Armco iron and AVOO grade aluminum.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413230001-7"

1. 39110-co

ACC NR: AP6030381

In the aluminizing of Armco iron in pure aluminum, the diffusion layer consisted of two zones: a thick zone of columnar crystallites adjoining the iron, and, considerably thicker, a fine crystalline zone (2-3 microns) adjoining the aluminum. The columnar crystallites grew predominantly in a direction perpendicular to the front of the reactive diffusion (toward the specimen surface) with the formation of characteristic protusions — tongues.

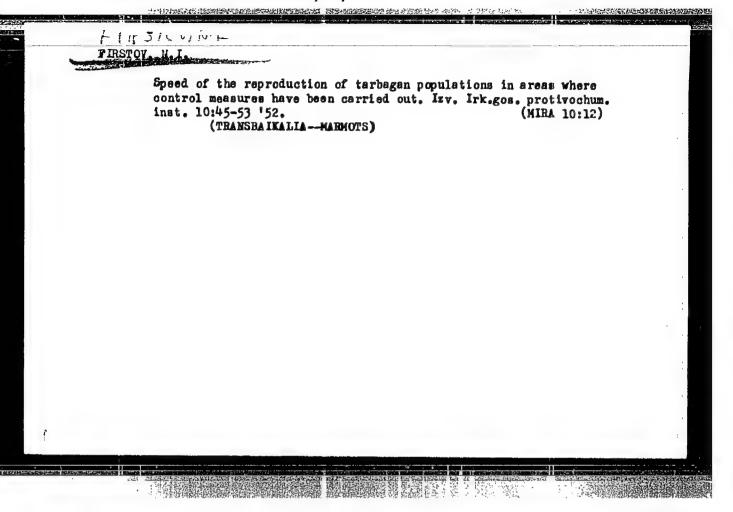
HERENDER BERTHAR BE

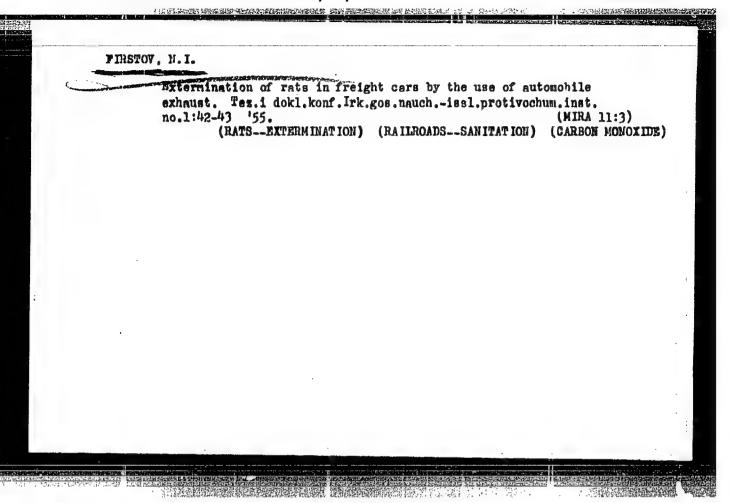
Formation of the two-phase layer is the result of reactive diffusion in the solid iron - aluminum melt systems the diffusion of aluminum atoms promotes the growth of columnar crystallites and the overall thickness of the layer, and in the straightforward diffusion of iron, atoms change in the condition of equilibrium of the system which leads to a decrease in layer thickness. From the thermodynamic point of view, this phenomenon 'boils down to an increase in entropy of displacement and decrease in the free energy of the system and, therefore, proceeds spontaneously and irreversibly.

The results of microstructural and chemical analyses were confirmed by roentgenographic investigation. Orig. art. has: 3 figures. [JPRS: 36,728]

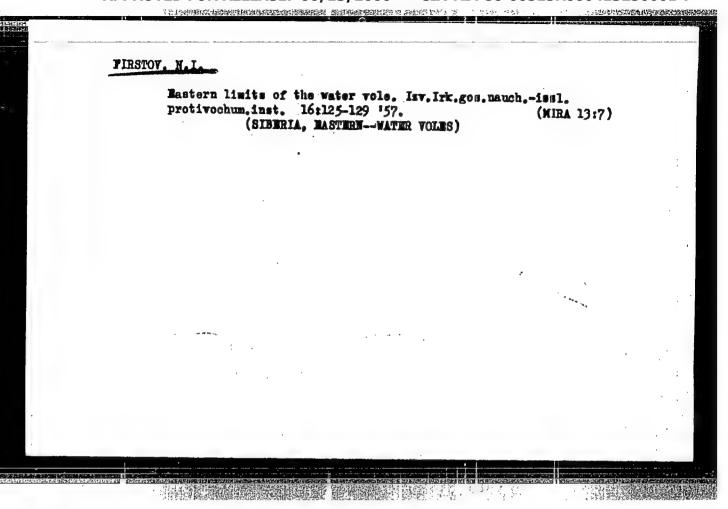
SUB CODE: 11 / SUBM DATE: 13Apr65 / ORIG REF: 005 / OTH REF: 009

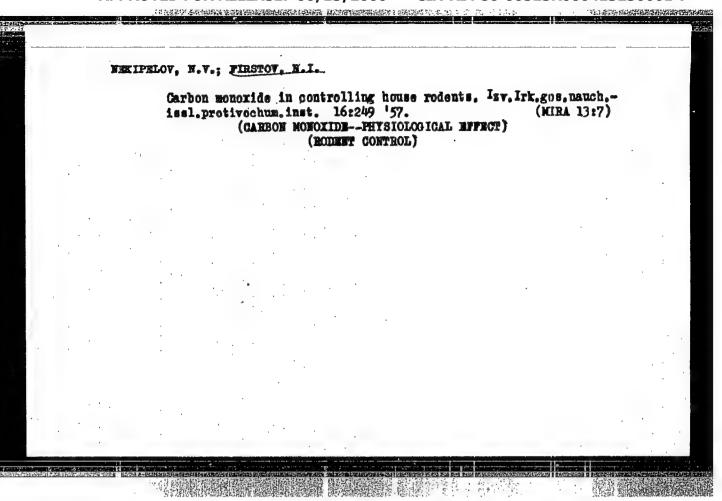
Card 2/2MLP

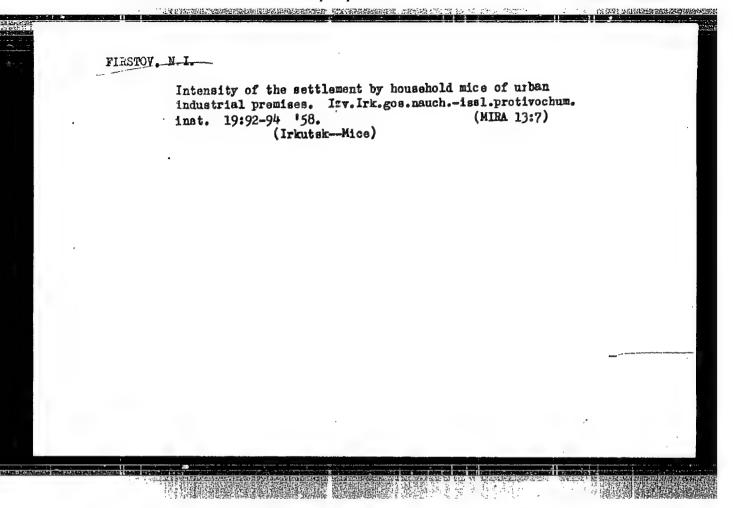


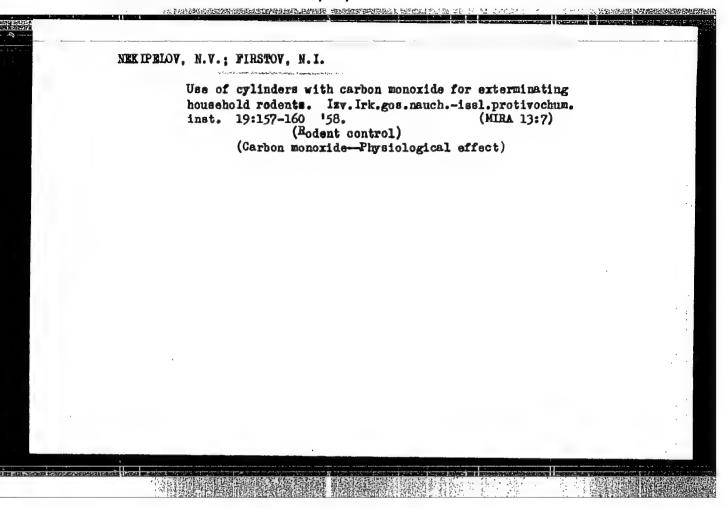


# PIRSTOV, W.I. Distribution of rodents on the southern frontier of the Altai, Isv. Irk.gos.nauch.-issl.protibochum.inst. 16:102-109 \*57. (GORNO-ALTAI AUTONOMOUS PROVINCE—RODMETIA) (MIRA 13:7)









# Still more on the selective attitude of gray rats toward various types of poisoned baits and on the comparative effectiveness of some trapping devices. Izv. Irk.gos.nauch... issl.protivochum.inst. 19:161-163 \*58. (MIRA 13:7)

THE THE PROPERTY OF THE PROPER

(Rodent baits and repellants)
(Irkutsk-Rats)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413230001-7"

 $EWT(m)/\dot{E}TC(f)/EPF(n)=2/EWG(m)/T/EWP(t)$ JD/JG/GS IJP(c) ACC NR: ATEO10572 SOURCE CODE: UR/0000/65/000/000/0029/0041 (N) AUTHOR: Mil'man, Yu. V.; Rachek, A. P.; Trefilov, V. I.; Udovenko, A. A.; Firstov, S. A.; Yaremchuk, V. V. ORG: Institute of Physics of Metals AN UkrSSR (Institut metallofiziki AN UkrSSR) TITLE: Mechanism of plastic deformation in alloys of transition metals SOURCE: AN UkrSSR. Mekhanizm plasticheskoy deformatsii metallov (Mechanism of the plastic deformation of metals). Kiev, Naukova dumka, 1965, 29-41 TOPIC TAGS: plastic deformation, cast alloy, phase transition, twinning, material ABSTRACT: The paper is a continuation of a previous work (Mil'man, Yu. V., Trefilov, V. I., Rachek, A. P., "Problems in the Physics and Science of Metals, 20", Naukova dumka, Kiev, 1964) devoted to the mechanism of plastic deformation and brittle fracture of alloys of elements in group VIA with other transition metals. The following alloy systems are studied: Cr-Mn, Cr-Ru, Cr-Fe, Cr-Os, W-Re, Mo-Re, Nb-Re and Mo-Ti The alloys were studied in the cast state and in some cases were subjected to heat Card 1/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413230001-7"

## "APPROVED FOR RELEASE: 06/13/2000

行为公司的政治的 电影的医人动物医验和的 ESE 的复数,现在是不是否是是

CIA-RDP86-00513R000413230001-7

L 24469-66 ACC NR: AT6010572 treatment. The relationship between the packing flaw energy and the electronic structure of the alloy is analyzed. It is shown that both transition and nontransition metals conform to the Seger rule on high energies for packing defects in metals. The twinning ≠ slipping transition in alloys of transition metals is studied. All alloys of elements in group VIA with metals in groups VIIA and VIIIA show a transition to twinning, while alloys with elements in group VIA (Mo-Ti alloys) show no twinning throughout the entire region of solid solutions with a bcc lattice under maximum loads. Experimental data show that alloying chromium, molybdenum and tungsten with metals of groups VIIA and VIII reduces the packing flaw energy and causes a transition to deformation by twinning (or to combined deformation by slipping and twinning). A brief survey of the literature shows no transition to twinning in alloys of group VIA with transition metals to the left of the chromium group in the periodic table. Orig. art. has: 8 figures. SUB CODE: 11/ SUPH DATE: 14Nov64/ ORIG REF: 003/ OTH REF: Refracting metals

-	1 12 026 16 EVT (n)/EMP(k)/T/EWP(t)/ET1 LIP(c) JD/HW/JJ/GD ACC NR: \(\frac{1}{2}\text{6009600}\) (N) SOURCE CODE: UR/000/65/000/000/0101/0111
	AUTHOR: Gridnev, V. N.; Ivashchenko, R. K.; Mil'man, Yu. V.; Trefilov, V. I.; Firstov, S. A.
	ORG: Institute of Metal Physics, AN UkrSSR (Institut metallofiziki AN UkrSSR)
	TITLE: Investigation of the effect of highly active elements on the plasticity of chromium
	SOURCE: AN UkrSSR. Fizicheskaya priroda khrupkogo razrusheniya metallov (Physical nature of brittle failure of metals). Kiev, Izd-vo Naukova dumka, 1965, 101-111 TOPIC TAGS: chromium, plasticity, metal aging, yttrium, rare earth element
	ABSTRACT: The article deals with the refining of chromium by treatment with highly active elements which react with the interstitial impurities in Cr to form more stable compounds than the corresponding Cr compounds. To this end, the use of Y and other rare-earth elements is particularly promising since then it is often possible to improve not only the plasticity but also the high temperature strength of the alloy. However, there is no common consensus on this effect of Y and rare-earth elements. Thus, O. N. Carlson et al. (Less Common Metals, 1964, 6, 6, 439) present experimental findings indicating that the temperature of cold brittle-
	Card 1/3



ACC NR: AT6009600

ness of cast Cr increases when it is treated with Y and other rare-earth elements. To clear up this contradiction, specimens of Cr treated with Y as well as of <u>bure</u> Cr in soldered and evacuated ampoules were annealed at 1200°C for 1 hr and water-quenched. By means of Vickers hardness tests, aging of these specimens was investigated at three temperatures (275°, 350° and 400°C) in a molten-tin bath. The findings on the increase in microhardness with aging are presented in Fig. 1, where each point represents the mean of 8-10 measurements. Fig. 1

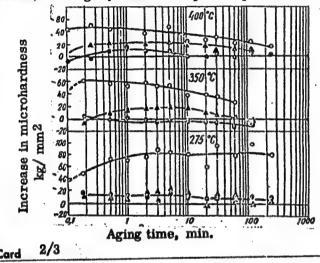


Fig. 1. Effect of treatment with Y and Pr on the aging of Cr:

ACC NR: AT6009600

indicates that the addition of Y virtually suppresses the processes of aging in the alloy (and hence also it suppresses the rise in the temperature of cold brittleness due to the segregation of an interstitial impurity — nitrogen — from the solid solution). These findings confirm the feasibility of using Y to improve the refining of Cr, since Y binds the greater part of nitrogen into nitrides, thus suppressing most of the effects of aging. Further tests, involving the treatment of Cr with microamounts of Y and Pr over a broad temperature range: from the temperature of liquid hydrogen to +900°C, showed, that such treatment enhances the microhardness of Cr at elevated temperatures.

Orig. art. has: 5 figures.

SUB CODE: 13, 11, 20/ SUBM DATE: 120ct64/ ORIG REF: 005/ OTH REF: 026/

ACC NR AP7005136

SOURCE CODE: UR/0126/66/022/004/0611/0616

AUTHOR: Trefilov, V. I.; Firstov, S. A.

ORG: Institute of Metal Physics, AN UkrSSR (Institut metallofiziki AN UkrSSR)

TITLE: A study of deformation and crack formation in thin chromium foils

SOURCE: Fizika metallov i metallovedeniye, v. 22, no. 4, 1966, 611-616

TOPIC TAGS: chromium, thin film, brittleness, material fracture, electron microscopy, plastic deformation, crystal dislocation, grain structure CRACK PROPAGATION

ABSTRACT: Electron microscopy was used to study deformation and crack formation in thin chromium foils. The chromium foils were made from ingots which were arc melted in argon. Circular, self-supporting samples were made from discs which were gradually thinned toward the center (thinnest section), and cracks were induced at the center by pricking the disc near the edge. This method allowed various stages of deformation as well as crack formation to be studied. An electron micrograph showed slip traces caused by the intersection of mobile dislocations with the oxide layer formed by electron bombardment. These slip traces were identified with surface interactions. Dislocations accumulated in the slip planes along the boundaries of the foil as a result of retarded motion. Three slip planes were observed: {110}, {112}, and {123}. Aging the foils at room temperature or heating to 350°C in the microscope column did not af-

UDC: 539.4 Card 1/2

#### ACC NR: AP7005136

fect the microstructures. Electron micrographs were also given of fractured center sections of the sample disc. Both intercrystalline and transcrystalline cracks formed. Cracks along grain boundaries did not result in much plastic deformation in neighboring areas. It was hypothesized that these were caused by dislocations moving at stresses below the elastic limit of the material, accumulating in grain boundaries, and nucleating as cracks at well below the elastic limit. Interactions of transcrystalline cracks with grain boundaries also occurred. Cracks penetrating into the thicker sections of the foil were bent at the point where the crack stopped propagating. This region showed heavy plastic deformation. The slip plane reactions necessary to form cracks (Cottrell mechanism) were outlined by slip traces in the foil which adjoined the crack edges. Slip planes and directions were given for microcrack nucleation in the foils. The microcracks lay along the (112) plane and did not have the orientations necessitated by the Cottrell mechanism. In utilizing these results in foils it is necessary to consider the details of deformation in foils, particularly the stress state and surface effects. Orig. art. has: 5 figures, 1 table, 1 formula.

· 中国主义体的自己的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业企业。

SUB CODE: 11,20/ SUBH DATE: 09Nov65/ ORIG REF: 009/ OTH REF: 006

Card 2/2

RYBALKO, F.P.; FIRSTOV, V.A.; BESPAMYATNYKH, S.G.

Effect of discontinuities on the statistics of distribution of plastic deformation. Fiz. tver. tela 6 no.8:2333-2336
Ag '64. (MIRA 17:11)

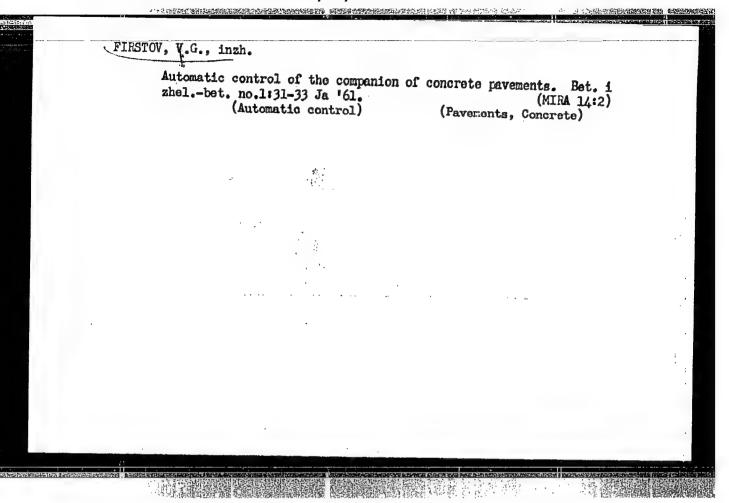
1. Ural'skiy gosudarstvennyy universitet imeni Gor'kogo, Sverdlovsk.

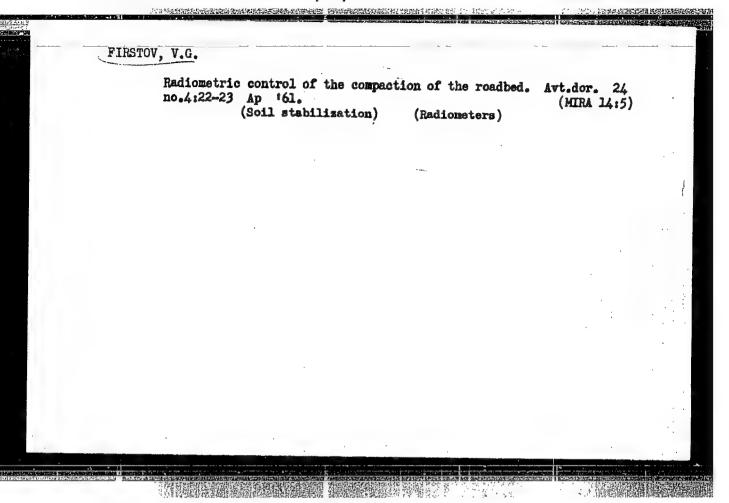
IVANOV, Nikolay Nikolayevich, prof.; POROTKOV. Ivan Vasil'yevich, prof.;
FIRSTOV. V.C., red.; ZUBKOVA, M.S., red.izd-va; DORSKAYA, G.D.,
tekhn.red.

[Use of achievements in physics in constructing roads; electrophysical measurements] Primenenie dostizhenii fiziki v stroitel'stwe avtomobil'nykh dorog; elektrofizicheskie izmereniia.
Noakva, Nauchno-tekkn.izd-vo M.va avtomobil'nogo transp. i
shosseinykh dorog RSFSR, 1960. 147 p.

(MIRA 14:4)

(Electronic measurements) (Road construction)





FIRSTOV, V. I.

USSR/Chemistry - Halogenated Hydrocarbons

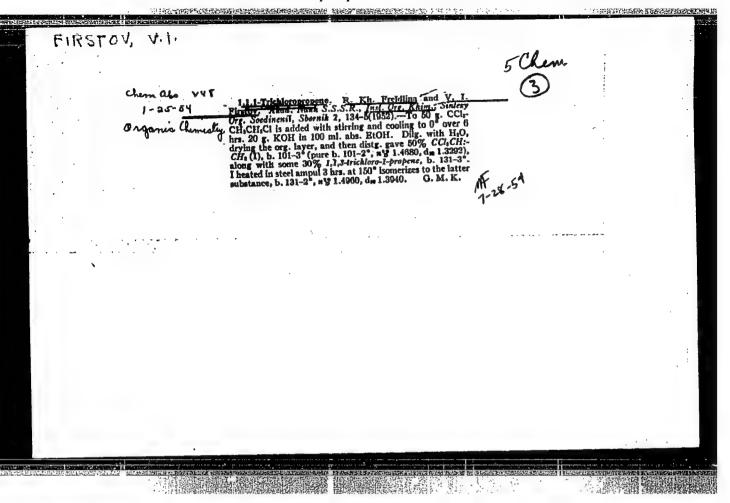
Sep/Oct 51

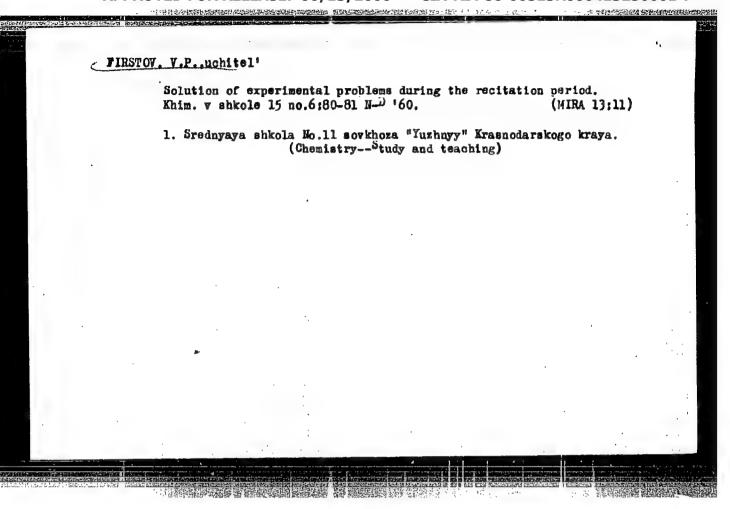
"Synthesis and Properties of Certain Polyhalogen Derivatives of Propene and Propene Containing the Trichloromethyl Group," A. N. Nesmeyanov, R. Kh. Freydlina, V. I. Firstov, Inst of Org Chem, Acad Sci USSR

"Iz Ak Nauk SSSR, Otdel, Khim Nauk" No 5, pp 505-511

Action of KOH on CCl<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>Cl yielded CCl<sub>2</sub>= CHCH<sub>2</sub>Cl and CCl<sub>3</sub>CH=CH<sub>2</sub> (latter compd never before prepd). By series of reactions starting from these 2 compds, prepd 8 new compds contg CCl<sub>2</sub> and CCl<sub>3</sub> groups. Of compds contg CCl<sub>3</sub> group, 2 were Br-substituted.

PA 195T5





BYCHKOV, I.Ya.; YERMOLATEV, I.S.; PIESTOVA, V.M., redaktor; SACHEVA, A.I., tekhnicheskikh redaktor.

[Mamual for administrative and management workers in institutes of public health] Spravochnik administrativno-khosiaistvennogo rabotnika uchreshdenii sdravookhraneniia. Moskva, Gos.iasd-vo meditsinskoi litry, 1955. 475 p.

(PUBLIC HEALTH)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413230001-7"

USSR / Human and Animal Physiology. Carbohydrate Metabolism.

Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 69851

Author : Iazarev, G. I.; Firsunkova, S. Ya., Postylyakova, R. I.;

Grivina, V. V.

Inst : Kostromsk Agricultural Institute

Title : Conditioned Reflex Influence on the Blood Sugar Level and

on the Formed Elements of the Blood

Orig Pub : Tr. Kostromsk. s.-kh. in-ta, 1957, No 1, 117-121

Abstract : No abstract given

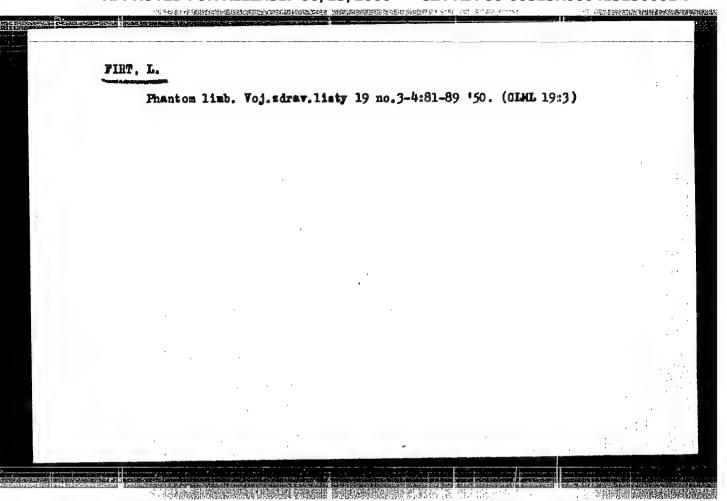
Card 1/1

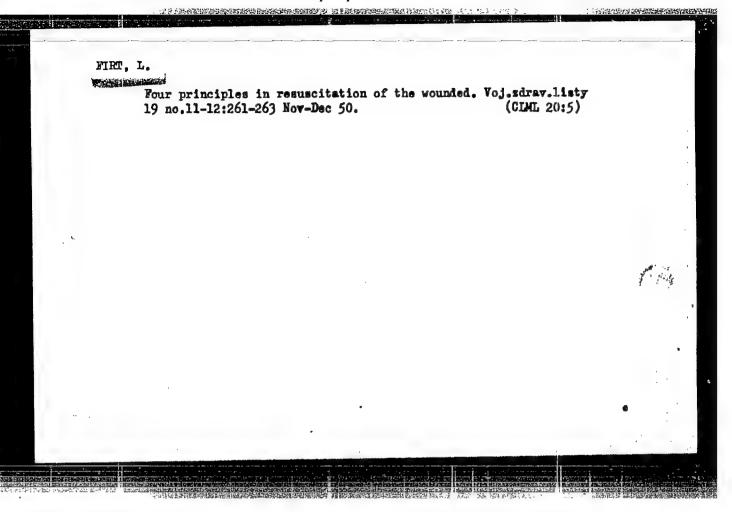
GEYGL, L. [Heihl, L.]; HELAN, A.; FIRT, A.

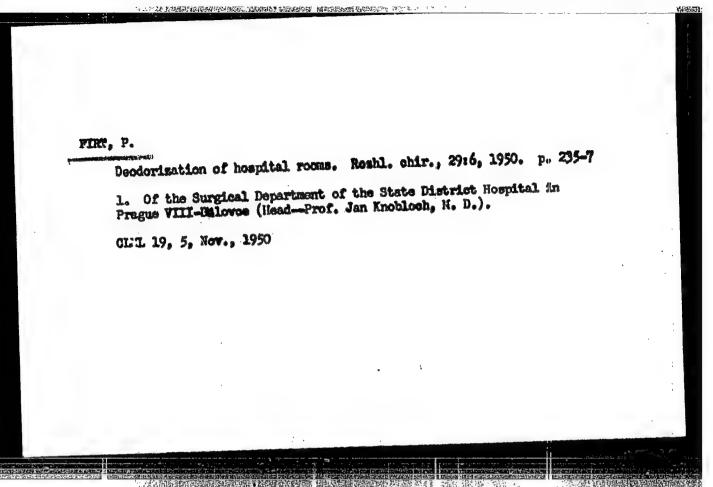
Indications for and technic and functional evaluation of thebography of the lower extremities. Khirurgiia 36 no.9834-38 \$ '60. (MIRA 13\*11)

1. Iz Instituta klinicheskoy i eksperimental'noy khirurgii v
Prage (dir. - dotsent B. Shpachek).

(LEG-HLOOD SUPPLY) (ANGIOGRAPHY)







FIRT, P.; HEJHAL, L.

Sodium citrate of a main cause of cardiac insufficiency in rapid transfusions. Cas. lek. cesk 92 no.49-50:1357-1367 4 Dec 1953.

1. Of the Experimental Department (Head of Research—Decent P. Malek, M.D.) of the Institute of Experimental Surgery (Director—Decent B. Spacek, M.D.), Prague.

Excerpta Medica Sec 6 Internal Medicine Vol. 9/6 June 55

2. GENERAL THERAPY

TRANSFUSION OF BLOOD, PLASMA AND BLOOD SUBSTITUENTS

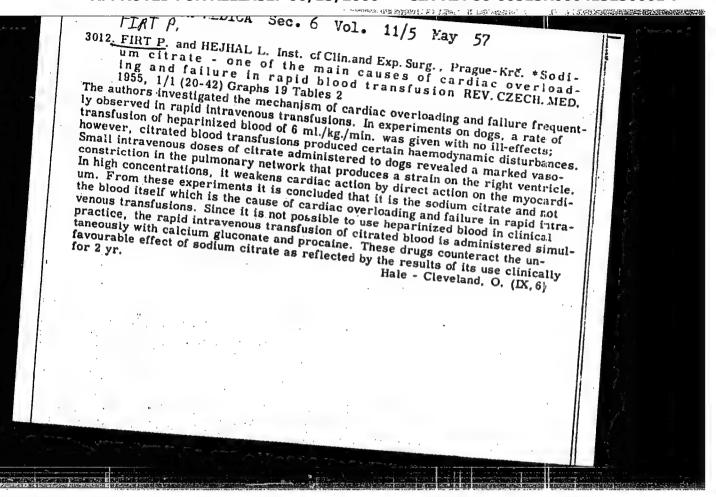
3442. FIRT P. and HEJHAL L. Ústav pro exp. a klin. Chir., Praha. \*Otázky ryentyen intravenosních transfusí. Rapid intravenous transfusions
ROZHL. CHIR. 1954, 33/5-6 (221-242) Graphs 13 Tables 8

Experiments in dogs showed that intravenous transfusion may be given much more
rapidly than has hitherto been routine, and that it is the addition of sodium citrate
to the donor blood which has been the cause of overstrain and heart failure. The
rate of transfusion of heparinized blood may be adjusted to the requirements of the

organism involved. Further experiments showed that the ill-effects caused by transfusion of citrate blood may be controlled by addition of calcium gluconate and procaine. The rate of transfusion and the effect of sodium citrate and calcium gluconate may be determined by registration of the venous blood pressure, the physiological initial value of which should not be exceeded during transfusion. Findings show that intravenous transfusion may be carried out considerably more swiftly than intra-arterial transfusion, so that the latter would seem to be super-

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413230001-7"

Pavlansky - Prague (IX, 6)



FIRT, P

HSJHAL, L.; STERBA, O.; FIRT, P.

Pathogenesis and treatment of hemorrhages. Rozhl. chir. 36 no.4:225-234 Apr 57.

1. Ustav klinicke a experimentalni cirurgie, Praba Ustav hematologie a krevni transfuse, Praba.

(HEMORRHAGE,

etiopathogen. & management (Cz))

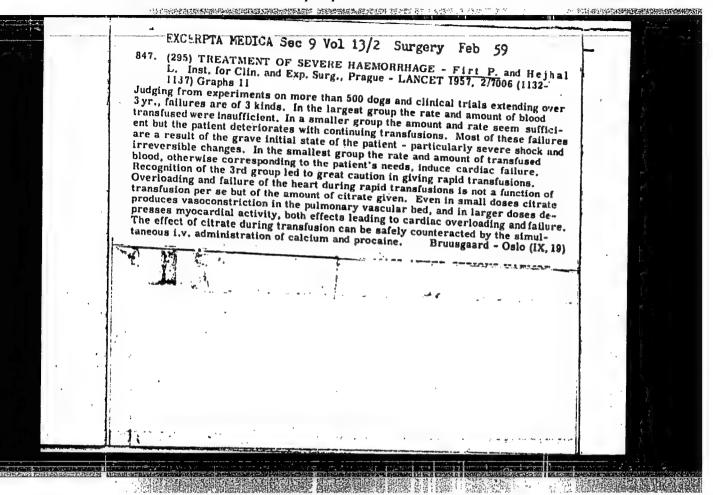
FIRT, Pavel; HWJHAL, Libor

Critic of the so-called Moszkowicz operation of varicose veins. Roshl. chir. 36 no.6:393-401 June 57.

1. Ustav klinicke a experimentalni chirurgie, reditel doc. MUDr Bohnwil Spacek.

(VARICOSE VEINS, ourg.

Moszkowicz operation, critical evaluation based on follow-up studies (Cz))



工程也了此种的特別,但如此的特別的特別的特別的特別的 在工程的特别的的证明,但不可以是

FIRT, P.; HEJHAL, L.; STERRA, O.; EEDNARIK, T.

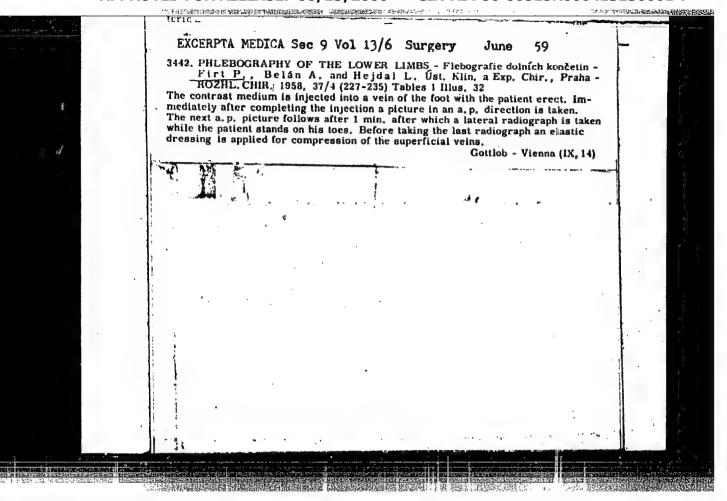
Arterial non-suture anastomosis with a fibrin ring. Roshl. chir. 37
no.4:217-226 Apr 58.

1. Ustav klinicke a experimentalni chirurgis, redited doc. Br. B. Spacek, a Ustav hematologie a krevni transfuse, redited Dr. J. Kidary, Praha.
P. F., Praha 13, SNB 75.

(AOSTA, surg.

anastomoses with fibrin ring in dogs, pathol. (Cz))

(FIERIS
fibrin ring in acrtic anastomoses in dogs, pathol. (Cs))



HEJHAL, L.; FIRT, P.

Dextran; colloidal solution infusions. Cas. lek. cesk. 97 no.25. Lek. veda zahr:121-134 20 June 58.

1. Ustav klinioke a experimentalni chirurgie, Praha.

(INEXTRAN)

properties & ther. use, review (Cz))

GEYGAL, L.; FIRT, P.; SHTERBA, O. [Sterba, O.]; BEDMARZHIK, T. [Bedmařík, T.]

Vascular anastomosis without angiorrhaphy. Eksp.khir. 4
no.2:24-30 Mr-Ap '59. (MIRA 12:5)

1. Is Instituta klinicheskoy i eksperimental'noy khirurgii v
Prage (dir. B.Shpachek) i Instituta gematologii i transfusii
v Prage (dir. - doktor med.nauk prof. I.Gorzheyshi).

(BLOOD VESSELS, surg.

anastomosis with fibrin ring & without
suturing in animals (Rus))

HEJHAL, L.; FIRT, P.; LIVORA, D.

Endovascular electrocoagulation of superficial varices of leg.

Rozhl. chir. 38 no.6:418-425 June 59

1. Ustav Klunicke a experimentalni chirurgie v Praze, reditel prof.dr.
B. Spacek Nemocnice Na Frantisku v Praze, I. chir. odd. prednosta prim.

(VARICOSE VEINS, ther.)

(ELECTROCOAGULATION)

EEDNARZHIK, T.; SHTERBA, O.; GENGAL, L.; FIRE, P.

Fibrin muff for joining blood vessels without sutures. Probl. gemat.
i perel. krovi 5 no.2:39-42 F '60. (MIRA 14'5)

1. Iz Instituta gematologii i perelivaniya krovi i Instituta klinicheskoy i eksperimental noy khirurgii v Prage.
(BLOOD VESSESI.—SHROERY)

A.呼出 (6) 品级高级电路电路电路

FIRT, P.; HEJHAL, L.

Contribution to surgical therapy of arterial ansurysms. Rozhl. chir.40 no.2-3:83-92 Mr 161.

1. Ustav klinicke a experimentalni chirurgie, Praha-Krc, reditel prof. MUDr. B.Spacek.
(ANEURYSMS surg)

FIRT SURTAME (in caps); Given Names Country: Czechoslovakia Academia Degrees: Institute of Clinical and Experimental Surgery (Ustav Affiliation: 'klinicke a experimentalni chirurgie), Prague; Director (Reditel): Prof Dr B Spacok Prague, Prakticky Lokar, Vol 41, No 17, 5 September 1961, pp 748-751 Source: "The Present-Day Possibilities of Reconstructive Data: Surgery of the Arteries." Authors: HEJHAL, L. MUDT HEJNAL, J. MUDY FIRT, P. MUDT 121

HEJHAL, L.; FIRT, P.; MICHAL, V.; HEJNAL, J.

On some problems in contemporary arterial surgery. Rozhl. chir. 42 no.1:3-7 Ja '63.

MICHAL, V.; HEJNAL, J.; HEJHAL, L.; FIRT, P.

Surgery of the arteries of the extremities. Rozhl. chir. 42 no. 1.
8-13 Ja '63.

1. Ustav klinicke a experimentalni chirurgie v Praze, reditel prof. dr. B. Spacek, Dr. 3.

(VASCULAR SURCERY) (ARTERIOSCLEROSIS) (EXTREMITIES)

(INTERMITTENT CLAUDICATION)

	Contribution to the surgery of acrtic iliac occulsions. Rozhl. chir. 42 no.1:17-27 Ja '63.	
	l. Ustav klinicke a experimentalni chirurgie v Praze, reditel prof. dr. B. Spacek, DrSc. (AORTA) (ILIAC ARTERY) (VASCULAR DISEASES) (VASCULAR SURGERY) (BLOOD VESSEL TRANSPLANTATION)	
j		
		,

PODLAHA, J.; DVORAK, J.; BARTOS, J.; CIKL, M.; FIRT, P.; FISCHER, J.; HEJHAL, L,; MASURKA, V.; RECEK, J.; TOMSU, M.

Clinical experiences with vascular protheses with curled polyester silk. Rozhl. chir. 42 no.1:28-38 Ja '63.

HEJNAL, J.; HEJHAL, L.; FIRT, P.; MICHAL, V.

Diagnosis and surgical treatment of vasorenal hypertension. Rozhl. chir. 42 no.1:44,54 Ja '63.

1. Ustav klinicke a experimentalni chirurgie v Praze, reditel prof. dr B. Spacek, DrSc.

(HYPERTENSION RENAL) (ANGIOGRAPHY) (RENAL ARTERY OBSTRUCTION)

(SPLENIC ARTERY)

GEYNAL, Ya. [Hejnal, J.]; GEYGAL, L. [Hejgal, L.]; FIRT, P.; MIKHAL, V. [Michal, V.]

···大工的运程的支撑。在1990年的中央的1990年的

Surgical treatment of vasorenal hypertension. Khirurgiia 40 no.7:68-75 Jl '64. (HIRA 18:2)

1. Institut klinicheskoy i eksperimental'noy khirurgii (dir. - chlen-korrespoident Chekhoslovatskoy akademii nauk prof. B. Shpachek [Spacek, B.]), Praga.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413230001-7"

FIRT, P.; MIKHAL, V. [Michal, V.]; GEYNAL, Ya. [Hejnal, J.]; GEYGAL, L. [Hejgal, L.]

(4) 经的股票存在各种服务市场的有限的经济,其中的基础等,最后是要强强的规划,是经过的代表上,在1967年,

Reconstructive surgery in obliterating arteriosclerosis of the abdominal aorta and iliac arteries. Khirurgiia 40 no.7:75-83 Jl '64. (MIRA 18:2)

1. Institut klinicheskoy i eksperimental'noy khirurgii (dir. - chlen-korrespondent Chekhoslovatskoy akademii nauk prof. B. Shpachek [Spacek, B.]), Praga.

Preventive administration of ponicillin in surgical reconstruction of arteries. Rozhl. chir. 44 no.5:301-305 My'65.

中元十元的经济的 医神经神经性性 医神经性 医神经性 医神经性神经 医神经神经 医毛沙尔氏 计自然

1. Ustav klinicke a experimentalni chirurgie v Praze (reditel: prof. dr. B. Spacek, DrSc.).

1327, 1191, 2607, 2807

Z/026/61/006/002/001/004 D231/D304

2.4.4200 AUTHOR:

Firt, Vladimír, Engineer

TITLE:

The calculation of ordinate values by the transformation of a homogeous system of algebraic equations

PERIODICAL:

Aplikace matematiky, v. 6, no. 2, 1961, 91-99

For investigating the limiting stresses of building struc-TEXT: tures and for calculating auto-vibrational frequencies of systems in unstressed conditions, as well as of systems under static axial stresses, the most frequently employed methods include the deformational and vectorial ones and the integration of differential equations, Ritz's and Galerkin's methods. In these methods one encounters the problem of evaluating the ordinate value  $\mathcal{E}_{Q}$  of a homogenous system of n algebraic equations, which are linear relative to the unknown  $x_{i}$  at  $i = 1, 2, \ldots n$ . Such a homogenous system is presented under

 $a_{1,1}x_{1} + a_{1,2}x_{2} + \cdots + a_{1,n-1}x_{n-1} + a_{1,n}x_{n} = 0$ 

 $a_{2,1}x_1 + a_{2,2}x_2 + \dots + a_{2,n-1}x_{n-1} + a_{2,n}x_n = 0$ 

Card 1/9

The calculation of ordinate values...

$$a_{n-1,1}x_1 + a_{n-1,2}x_2 + \cdots + a_{n-1,n-1}x_{n-1} + a_{n-1,n}x_n = 0, a_{n,1}x_1 + a_{n,2}x_2 + \cdots + a_{n,n-1}x_{n-1} + a_{n,n}x_n = 0.$$
 (1)

and functions of the argument  $\mathcal{E}$  are given by the coefficients  $\mathbf{a_{i,k}} = \mathbf{f_{i,k}}(\mathcal{E})$ . The ordinate value  $\mathcal{E}_0$  is governed by condition

 $\Delta \left( \mathcal{E}_{0}\right) =0, \tag{2}$ 

where the determinant  $\Delta(\mathcal{E})$  has the form of

$$\Delta(\mathcal{E}) = \begin{vmatrix} a_{1,1}, & a_{1,2}, & \dots, & a_{1,n} \\ a_{2,1}, & a_{2,2}, & \dots, & a_{2,n} \\ \vdots & & & \vdots \\ a_{n,1}, & a_{n,2}, & \dots, & a_{n,n} \end{vmatrix}$$
 (3)

It is intended to facilitate the evaluation of the ordinate value  $\mathcal{E}_0$  from Eq. (2), which becomes too involved when determinant (3) is of a high order. To do this, it is proposed transforming the homogenous system of equations into a non-homogenous one and apply-

Card 2/9

The calculation of ordinate values...

ing the iterative method by proceeding in stages of approximations. The main advantage in this procedure is that it dispenses with the plotting of the function  $\Delta(\mathcal{E})$  in a graph for interpolation. The proposed method divides each of the system (1) equations by  $x_n \neq 0$ , thus obtaining the non-homogenous system

$$a_{1,1} \frac{x_{1}}{x_{n}} + a_{1,2} \frac{x_{2}}{x_{n}} + \dots + a_{1,n-1} \frac{x_{n-1}}{x_{n}} = -a_{1,n},$$

$$a_{2,1} \frac{x_{1}}{x_{n}} + a_{2,2} \frac{x_{2}}{x_{n}} + \dots + a_{2,n-1} \frac{x_{n-1}}{x_{n}} = -a_{2,n},$$
(5)

 $a_{n-1,1} \frac{x_1}{x_n} + a_{n-1,2} \frac{x_2}{x_n} + \cdots + a_{n-1,n-1} \frac{x_{n-1}}{x_n} = -a_{n-1,n}.$ 

and

$$a_{n,1} \frac{x_1}{x_n} + a_{n,2} \frac{x_2}{x_n} + \cdots + a_{n,n-1} \frac{x_{n-1}}{x_n} + a_{n,n} = 0.$$
 (6)

In the first approximation an arbitrary value (o) is taken for Card 3/9

The calculation of ordinate values ...

the ordinate value  $\mathcal{E}_0$  of the nought order and the values of the coefficients (o)a<sub>i,k</sub> = f<sub>i,k</sub> ((o)  $\mathcal{E}$ ) are calculated. By Gaussian elimination, by iteration or by some other method, the ratios

(o)  $\left(\frac{x_i}{x_n}\right)$  at  $i = 1, 2, \dots n - 1$  are evaluated from the identities

in (5), and these ratios are approximate because they were derived from the approximate values (0) $a_{i,k}$ . The values (0) $a_{n,k} = f_{n,k}$  ((0) $\mathcal{E}$ ) and (0)  $(x_i)$  are inserted into Eq. (6) and the function

(0)  $\mathcal{E}$ ) and (0)  $\left(\frac{x_1}{x_n}\right)$  are inserted into Eq. (6) and the function (1)  $\tilde{\Phi}(\mathcal{E}) = \left(\frac{x_1}{x_n}\right) a_{n,1} + \left(\frac{x_2}{x_n}\right) a_{n,2} + \cdots + \left(\frac{x_{n-1}}{x_n}\right) a_{n,n-1} + a_{n,n}$  (7)

thus obtained is plotted in a graph, where  $(x_i)$  are constants

Card 4/9

26318

Z/026/61/006/002/001/004 D231/D304

The calculation of ordinate values ...

and only the coefficients  $a_{n,k}$  are functions of the argument  $\ell$ . Approximation (1)  $\ell$  is the root of the equation (1)  $\ell$  ( $\ell$ ) = 0. Similarly, for the second approximation the values of the coefficients (1)  $a_{i,k} = f_{i,k}((1) \ell)$  are calculated and then the ratios  $\frac{x_i}{x_n}$ 

at i = 1,2, ... n-1 are established by solving Eq. (5) with these coefficients (1)a<sub>i,k</sub>. The graph of function

efficients (1)  $a_{1,k}$ . The graph  $a_{n,2}$  + ... + (1)  $\frac{x_{n-1}}{x_n}$   $a_{n,1}$  +  $\frac{x_{n-1}}{x_n}$   $a_{n,n-1}$  +  $\frac{x_{n-1}}{x_n}$  (8)

is then plotted with the constant ratios (1)  $\left(\frac{x_i}{x_n}\right)$  and with the

coefficients  $a_{n,k}$  which are functions of the argument  $\ell$ . The root of equation (2)  $\phi(\ell) = 0$ , namely (2)  $\ell$ , is the second approximation of the ordinate value  $\ell_0$ . Generally, the value (m)  $\ell$  will be a

Card 5/9

The calculation of ordinate values ...

sufficiently close approximation of  $\mathcal{E}_0$  if its difference from the preceding value (m-1)  $\mathcal{E}$  is "sufficiently small". Two numerical examples demonstrate the application of this method for calculating the minimum value of the limiting stress range of a frame (Fig. la), pertaining in the first example to the shape of deflection which is defined by the relative displacement  $\delta$  of the cross-sections of pillar heads (Fig. lb); in the second example the same frame is restrained in position by struts (Fig. lc). In both cases the moment of pillar inertia, the length of struts, the height of frame and the ratios of stresses  $N_{1}$ , kr are given. In the first example the homogenous system

is transformed into the non-homogenous one

Card 6/9

· 26318 . Z/026/61/006/002/001/004 D231/D304 The calculation of ordinate values.. [L1(E1) +

and both approximations are evaluated numerically, the second approximation also graphically (Fig. 2). In the second example one approximation suffices. It is generally concluded that identity (6) can be chosen deliberately from Eq. (1) and, provided that the ratios  $x_i/x_n$  are known accurately,  $\varepsilon_0$  can be computed from any of the system (5) or (6) equations. Taking the numerical examples, the most convenient form of Eq. (6) to be chosen out of the system (1) equations would be one, the right hand side of which represents a stress condition with constructional deformations similar to the

Z/026/61/006/002/001/004

Z/026/61/006/002/001/004

D251/D304

investigated shape of deflection. There are 2 figures and 5 references: 5 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: F. Bleich, Buckling Strength of Metal Structures, McGraw-Hill Book Company, Inc. New. York, 1952.

ASSOCIATION: Ústav teorické a aplikované mechaniky ČSAV, Fraha (Institute for Theoretical and Applied Mechanics, Gzechoslovak AS, Frague)

SUEMITTED: September 18, 1960

Fig. 2

Obc. 2.

32771 Z/026/62/007/001/004/004 D236/D305

24,4100 (1103, 1.109, 1191)

AUTHOR:

Firt, Vladimír, Engineer

TITLE:

Contribution to determining characteristic roots

PERIODICAL: Aplikace matematiky, v. 7, no. 1, 1962, 51-73

TEXT: The article describes four methods for determining characteristic roots based on the transformation of the homogeneous system of algebraic (linear) equations

$$a_{1,1}x_1 + a_{1,2}x_2 + \dots + a_{1,n-1}x_{n-1} + a_{1,n}x_n = 0,$$

$$a_{2,1}x_1 + a_{2,2}x_2 + \dots + a_{2,n-1}x_{n-1} + a_{2,n}x_n = 0,$$

$$a_{n-1,1}x_1 + a_{n-1,2}x_2 + \dots + a_{n-1,n-1}x_{n-1} + a_{n-1,n}x_n = 0,$$

$$a_{n,1}x_1 + a_{n,2}x_2 + \dots + a_{n,n-1}x_{n-1} + a_{n,n}x_n = 0,$$

(1)

Card 1/7

32771 Z/026/62/007/001/004/004 D236/D305

Contribution to determining

The first method is used for determination of the characteristic frequencies of a framework (Fig. 1). The root  $\lambda_0$  is obtained as the root of the equation  $A(\lambda) = 0$ , the function  $A(\lambda)$  being defined by

$$A(\lambda) = a_{n,1} \frac{x_1}{x_n} + a_{n,2} \frac{x_2}{x_n} + \cdots + a_{n,n-1} \frac{x_{n-1}}{x_n} + a_{n,n}$$
 (7)

and the values of 
$$\frac{a_{1,1} \frac{x_1}{x_n} + a_{1,2} \frac{x_2}{x_n} + \dots + a_{1,n-1} \frac{x_{n-1}}{x_n} = -a_{1,n},}{a_{2,1} \frac{x_1}{x_n} + a_{2,2} \frac{x_2}{x_n} + \dots + a_{2,n-1} \frac{x_{n-1}}{x_n} = -a_{2,n},}$$

 $a_{n-1,1}\frac{x_1}{x_n}+a_{n-1,2}\frac{x_2}{x_n}+\ldots+a_{n-1,n-1}\frac{x_{n-1}}{x_n}=-a_{n-1,n}.$ (8)

Card 2/7

CIA-RDP86-00513R000413230001-7" APPROVED FOR RELEASE: 06/13/2000

32771 Z/026/62/007/001/004/004 D236/D305

Contribution to determining ...

are used instead of  $x_1/x_n$ , i = 1, 2, ..., n-1. In the special case shown in

$$a_{1,1}x_1 + a_{1,2}x_2 = 0,$$

$$a_{2,1}x_1 + a_{2,2}x_2 + a_{2,3}x_3 = 0,$$

$$\vdots$$

$$a_{n-2,1} + a_{n-2,2}x_2 + \dots + a_{n-2,n-1}x_{n-1} = 0,$$

$$a_{n-1,1}x_1 + a_{n-1,2}x_2 + \dots + a_{n-1,n-1}x_{n-1} + a_{n-1,n}x_n = 0,$$

$$a_{n,1}x_1 + a_{n,2}x_2 + \dots + a_{n,n-1}x_{n-1} + a_{n,n}x_n = 0.$$

(12)

the function  $A_1(\lambda)$  is determined by

$$A_1(\lambda) = a_{n,1} + a_{n,2} \frac{x_2}{x_1} + a_{n,3} \frac{x_3}{x_1} + \dots + a_{n,n} \frac{x_n}{x_1}$$
 (14)

Card 3/7

32771 Z/026/62/007/001/004/004 D236/D305

Contribution to determining ...

and it is advantageous to use the equation  $A_1(\lambda) = 0$ . The remaining methods are all iterative. Method two is the method of normal iteration; it is based on the auxiliary system of (12), the solution of

$$a_{1,2} \frac{x_2}{x_1} = -a_{1,1},$$

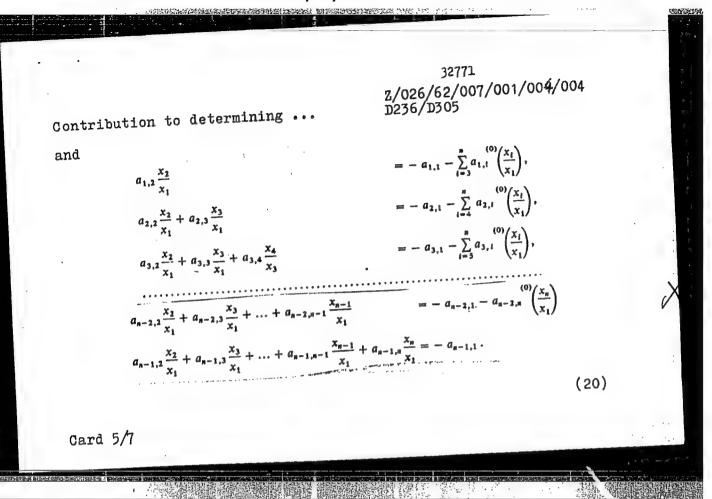
$$a_{2,2} \frac{x_2}{x_1} + a_{2,3} \frac{x_3}{x_1} = -a_{2,1},$$

$$a_{3,2} \frac{x_2}{x_1} + a_{3,3} \frac{x_3}{x_1} + a_{3,4} \frac{x_4}{x_1} = -a_{3,1},$$

$$a_{n-2,2} \frac{x_2}{x_1} + a_{n-2,3} \frac{x_3}{x_1} + \dots + a_{n-2,n-1} \frac{x_{n-1}}{x_1} = -a_{n-2,1},$$

$$a_{n-1,2} \frac{x_2}{x_1} + a_{n-1,3} \frac{x_3}{x_1} + \dots + a_{n-1,n-1} \frac{x_{n-1}}{x_1} + a_{n-1,n} \frac{x_n}{x_1} = -a_{n-1,1}.$$
(13)

Card 4/7



3277ī Z/026/62/007/001/004/004 D236/D305

Contribution to determining ...

The third system, the system of double iteration, is based on previous work by the author (Ref. 1: Aplikace matematiky, no. 2, 1961) and is actually a combination of the method of the normal iteration and the cited work by the author. The last method, that of treble iteration, is also based on the author's previous work, forming approximations of approximations for the characteristic roots. Numerical examples are given. The conditions of convergence of the methods are not examined. Exact and appropriate calculation of the first derivative of function (7) is given; four approximate equations for this function in the neighborhood of point \( \)(k) are also given. There are 3 figures, 1 table and 9 references: 8 Sovietbloc and 1 non-Soviet-bloc.

ASSOCIATION: Ústav teoretické a aplikované mechaniky ČSAV (Insti-

tute for Theoretical and Applied Mechanics Czecho-

slovak AS)

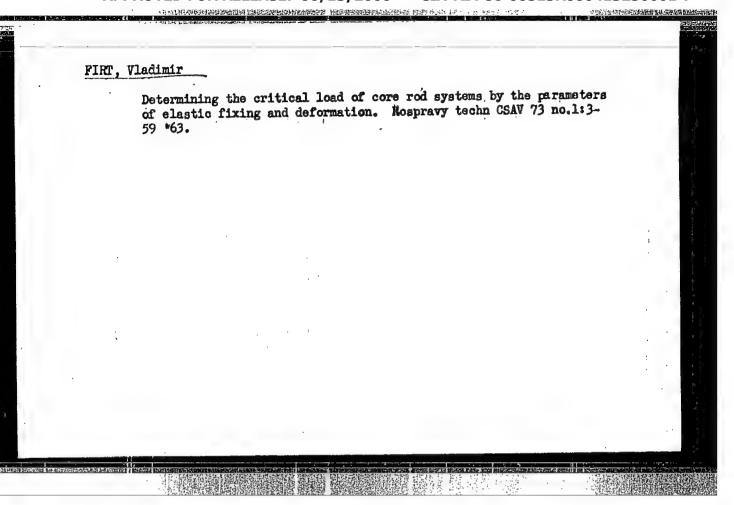
SUBMITTED: January 11, 1961

Card 6/7

# FIRT, Vladimir, inz.

Proper oscillation of arches and frames in the plane and space. Aplikace mat 8 no.1:1-29 '63.

1. Ustav teoreticke a aplikovane mechaniky, Ceskoslovenska akademie ved, Vysehradska 49, Praha 2.



# FIRT, Vladimir, CSc.

Vibration of structures with beams of variable cross section. Pt.l. Aplikace mat 10 no.1:15-30 165.

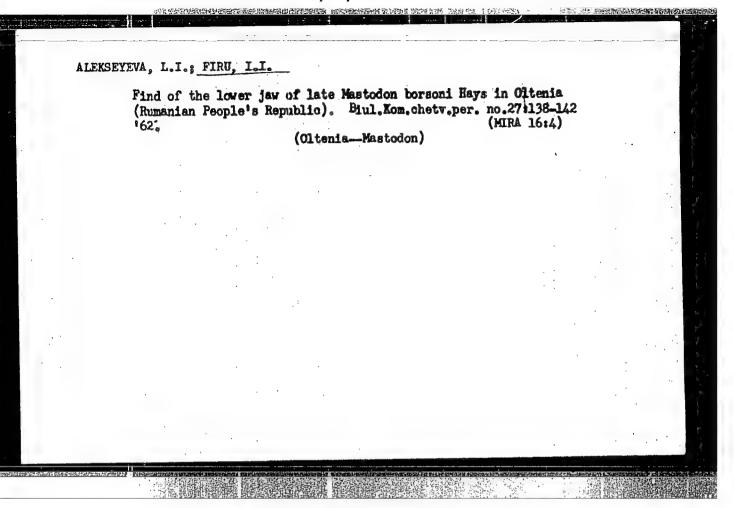
1. Institute of Theoretical and Applied Mechanics of the Czechoslovak Academy of Sciences, Prague 2, Vysehradska 49. Submitted March 10, 1964.

DEMJEN, Jozaef; FIRTKO, Janos

Flow of the conductor liquid in the homogeneous external magnetic field among coaxial cylinders. Magy fiz folyoir 12 no.3:255-259 164.

1. Chair of Physics, Technical University of Heavy Industry, Miskolc.

#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413230001-7



ATTENDED TO THE TOTAL STREET TO THE STREET THE STREET TO THE STREET TO

FIRU, M.

FIRU, M. Night flight. p. 15 Vol. 1, no. 12, Dec. 1955 ARIPHE PATRIEI. Bucuresti, Rurania.

SOURCE: East European Accessions List (EEAL) Library of Congress Vol. 5, no. 6, June 1956

## "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413230001-7

FIRU, P.; IONESCU, I.; NEACU, N.

Contributions to the study of cranial asymmetry. p. 213. FROBLEME DE ANTROFOLOGIE. (Academia Republicii Populare Romine) Bucuresti. Vol. 1, 1954

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol. &, no. 12, December 1955

## "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413230001-7

FIRU, F.; SAHLEANU, V.

Correlation among some diemeters of the visceral cranium in the course of development. p. 277. PROBLEME DE ANTROFOLOGIE. (Academia Republicii Populare Romine) Bucuresti. Vol. 1, 1954.

SOURCE: East European Accessions List, (EEAL), Library of Congress, Vol. 2, no. 12, December 1953

POPESCU, Valerian; FIRU, P.; CAIAR, M.

External carotid ligation in the treatment of malignant bucco-maxillofacial tumours. Rumanian M. Rev. 1 no.2:94 Apr-June 57.

(FACE, neopl.

bucco-maxillo-facial, surg., ligation of external carotid artery)

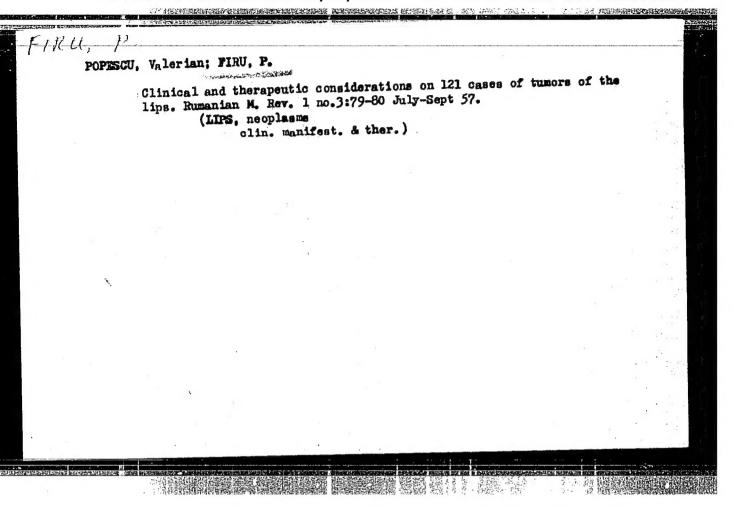
(ARTERIES, CAROTID, surg.

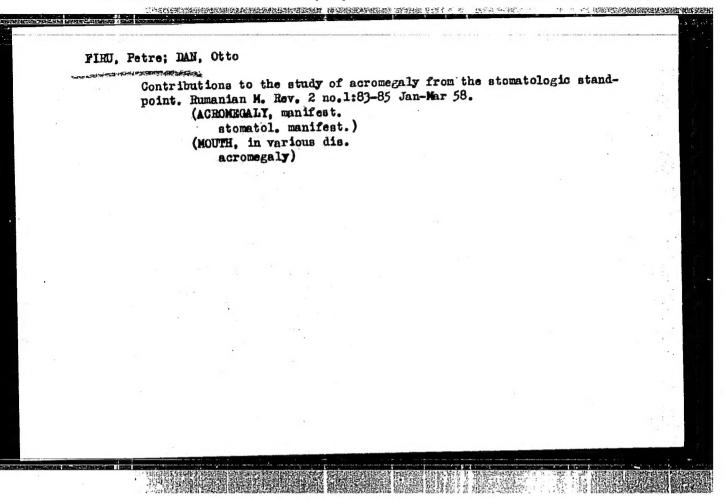
ligation in bucco-maxillo-facial tumors)

#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413230001-7

过几部分以为此的人人也是有可以对 新生性的自然的 的 的现在分词 化二氯化二氯化二氯化 ; haderal Problems of Arthology, Lamora, comparedive CATEGORY Checklogy A35. JOUR. : REBiol., No. 12 1958, No. 56419 : Posescu, V., Firu, P., Burlibasa, C. AUTHOR 1.151. : Chiaical Sats on the Treatment of 171 Cases of INTLE Tumors of the Lip ORIG. PUB. : Stomatologia, 1956, Vol.3, No.1, 28-39 . The authors' material - 121 cases of tumers of ABSTRACT the lip - included 97 involving the lower lip (50.56%) and 20 the upper lip (16.5%). Heligmant tamora predominated (75.00%). Of these, 50% perc in the second stage (45 cases), 24 in the third and fourth, and only 5 in the first stage. Treatment was primarily surgical. The second step in therapy - removal of regional tymph nodes - was resorted to only when the latter were palpoble. Long-term results in the first two stages were good. Some patients were followed up to lo years. In stages III and IV, recurrence was seen in 3 of 3 cases (from 6 months to 2 years) even with widespread resection of nades. -- P.T.Shmulevick CAMD: 1/1

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413230001-7"





#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413230001-7

